



OIPE

RAW SEQUENCE LISTING DATE: 04/08/2002 PATENT APPLICATION: US/10/003,671A TIME: 15:14:37

Input Set : A:\36858Aseq.txt

Output Set: N:\CRF3\04082002\J003671A.raw

## **ENTERED**

c>	8 11 14 15	<120 <130 <140 <b>&lt;14</b> 1	)> T) )> F) )> C( L <b>&gt; C</b> (	TLE LE I JRREI JRREI	REFEI NT AI NT EI	INVER RENCI PPLIC LLINC	NTION E: 28 CATION	N: NO B110, ON NO TE: 2	OVEL /3685 JMBEI 2002	58A R: US -03-2	5 10, 22	/003	6712		ATER:	IALS	AND	METHODS
											50/24	45,34	16					
					FIL					1-02								
					ROF						,							
					ARE:		suti	ı ve	rsioi	1 3	Ļ							
		<210> SEQ ID NO: 1 <211> LENGTH: 998																
		<212> TYPE: DNA																
		<213> ORGANISM: Homo sapiens																
		<220> FEATURE:																
		<221> NAME/KEY: CDS																
		<222> LOCATION: (54)(512)																
	34	<223> OTHER INFORMATION:																
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	39																1	
												att						104
		Cys	Ser	Leu	_	Met	Ala	Arg	Tyr	_	Ile	Ile	Lys	Tyr		Asp	Gln	
	43				5					10		- 4 -			15			150
												ctg						152
		rys	Ата	ьеи 20	Tyr	Thr	Arg	ASP	25	GIN	Leu	Leu	val	30	Asp	Pro	Val	
	47	~~~	~~~		+~~	+ ~+	<b>~</b> ~~	~ ~ ~		2+0	+ 00	aca	att		220	2/12	aaa	200
												Thr						200
	51	AIG	35	H2II	Cys	Cys ·	niu	40	bys	116	Cys		45	110	no	nry	OLI	
		t.t.α		cac	acc	aaσ	atc		att	ttc	cta	ggg		caq	σσα	aaa	agc	248
												Gly						
	55			5		-1-	55					60			•	•	65	
			tgc	ctg	gca	tgt	gtg	gag	aca	gaa	gag	ggg	cct	tcc	cta	cag	ctg	296
												Gly						
	59					70					75					80		
	61	gag	gat	gtg	aac	att	gag	gaa	ctg	tac	aaa	ggt	ggt	gaa	gag	gcc	aca	344
	62	Glu	Asp	Val	Asn	Ile	Glu	Glu	Leu	Tyr	Lys	Gly	Gly	Glu	Glu	Ala	Thr	•
	63				85					90					95			
												tcc						392
		Arg	Phe		Phe	Phe	Gln	Ser		Ser	Gly	Ser	Ala		Arg	Leu	Glu	
	67			100		_			105					110				
•	69	gct	gct	gcc	tgg	cct	ggc	tgg	ttc	ctg	tgt	ggc	ccg	gca	gag	ccc	cag	440

Input Set : A:\36858Aseq.txt

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70 Ala Ala Ala Trp Pro Gly Trp Phe Leu Cys Gly Pro Ala Glu Pro Gln
                           120
73 cag cca gta cag ctc acc aag gag agt gag ccc tca gcc cgt acc aag
                                                                         488
74 Gln Pro Val Gln Leu Thr Lys Glu Ser Glu Pro Ser Ala Arg Thr Lys
75 130
                       135
                                            140
77 ttt tac ttt gaa cag agc tgg tag ggagacagga aactgcgttt tagccttgtg
                                                                         542
78 Phe Tyr Phe Glu Gln Ser Trp
                   150
79
81 cccccaaacc aagctcatcc tgctcagggt ctatggtagg cagaataatg tcccccgaaa
                                                                         602
83 tatgtccaca toctaatooc aagatotgtg catatgttac catacatgtc caaagaggtt
                                                                         662
85 ttgcaaatgt gattatgtta aggatcttga aatgaggaga caatcctggg ttatccttgt
                                                                         722
87 gggctcagtt taatcacaag aaggaggcag gaagggagag tcagagagag aatggaagat
                                                                         782
89 accatgcttc taattttgaa gatggagtga ggggccttga gccaacatat gcaggtgttt
                                                                         842
91 ttaqaaqqaq qaaaaqccaa qqqaacqqat tctcctctat aqtctccqqa aggaacacaq
                                                                         902
93 ctcttgacac atggatttca gctcagtgac acccatttca gacttctgac ctccacaact
                                                                         962
95 ataaaataat aaacttgtgt tattgtaaac ctctgg
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98 <210> SEQ ID NO: 2
99 <211> LENGTH: 152
100 <212> TYPE: PRT
101 <213> ORGANISM: Homo sapiens
103 <400> SEQUENCE: 2
105 Met Cys Ser Leu Pro Met Ala Arg Tyr Tyr Ile Ile Lys Tyr Ala Asp
106 1
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109 Gln Lys Ala Leu Tyr Thr Arg Asp Gly Gln Leu Leu Val Gly Asp Pro
110
113 Val Ala Asp Asn Cys Cys Ala Glu Lys Ile Cys Thr Leu Pro Asn Arg
117 Gly Leu Asp Arg Thr Lys Val Pro Ile Phe Leu Gly Ile Gln Gly Gly
                            55
121 Ser Arg Cys Leu Ala Cys Val Glu Thr Glu Glu Gly Pro Ser Leu Gln
                        70
                                             75
125 Leu Glu Asp Val Asn Ile Glu Glu Leu Tyr Lys Gly Glu Glu Ala
                    85
                                        90
129 Thr Arg Phe Thr Phe Phe Gln Ser Ser Ser Gly Ser Ala Phe Arg Leu
                                    105
133 Glu Ala Ala Ala Trp Pro Gly Trp Phe Leu Cys Gly Pro Ala Glu Pro
134
                                120
137 Gln Gln Pro Val Gln Leu Thr Lys Glu Ser Glu Pro Ser Ala Arg Thr
138
        130
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141 Lys Phe Tyr Phe Glu Gln Ser Trp
142 145
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146 <211> LENGTH: 998
147 <212> TYPE: DNA
148 <213> ORGANISM: Homo sapiens
150 <220> FEATURE:
151 <221> NAME/KEY: CDS
152 <222> LOCATION: (3)..(512)
153 <223> OTHER INFORMATION:
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Input Set : A:\36858Aseq.txt

155	<400	> SE	OUE	NCE:	3													
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157											Asp (							
158	1					5		_			10					15		
160	gca	gga	atg	tgt	tcc	ctc	ccc	atg	gca	aga	tac	tac	ata	att	aaa	tat	9	95
161	Ala	Gly	Met	Cys	Ser	Leu	Pro	Met	Ala	Arg	Tyr	Tyr	Ile	Ile	Lys	Tyr		
162					20					25					30			
164	gca	gac	cag	aag	gct	cta	tac	aca	aga	gat	ggc	cag	ctg	ctg	gtg	gga	14	43
165	Ala	Asp	Gln	Lys	Ala	Leu	Tyr	Thr	Arg	Asp	Gly	Gln	Leu	Leu	Val	Gly		
166		_		35					40	•				45				
168	gat	cct	gtt	gca	gac	aac	tgc	tgt	gca	gag	aag	atc	tgc	aca	ctt	cct	19	91
169	Asp	Pro	Val	Ala	Asp	Asn	Cys	Cys	Ala	Glu	Lys	Ile	Cys	Thr	Leu	Pro		
170			50					55					60					
17.2	aac	aga	ggc	ttg	gac	cgc	acc	aag	gtc	ccc	att	ttc	ctg	ggg	atc	cag	2	3.9
173	Asn .	Arg	Gly	Leu	Asp	Arg	Thr	Lys	Val	Pro	Ile	Phe	Leu	Gly	Ile	Gln		
174		65					70					75						
	gga																. 21	87
177	Gly	Gly	Ser	Arg	Cys	Leu	Ala	Cys	Val	Glu	Thr	Glu	Glu	Gly	Pro	Ser		
178						85					90					95		
180	cta	cag	ctg	gag	gat	gtg	aac	att	gag	gaa	ctg	tac	aaa	ggt	ggt	gaa	3:	35
181	Leu	Gln	Leu	Glu	Asp	Val	Asn	Ile	Glu	Glu	Leu	Tyr	Lys	Gly	Gly	Glu		
182					100					105					110			
184	gag	gcc	aca	cgc	ttc	acc	ttc	ttc	cag	agc	agc	tca	ggc	tcc	gcc	ttc	38	83
185	Glu .	Ala	Thr	Arg	Phe	Thr	Phe	Phe	Gln	Ser	Ser	Ser	Gly	Ser	Ala	Phe		
186				115					120					125				
188	agg	ctt	gag	gct	gct	gcc	tgg	cct	ggc	tgg	ttc	ctg	tgt	ggc	ccg	gca	4:	31
189	Arg	Leu	Glu	Ala	Ala	Ala	Trp	Pro	Gly	Trp	Phe	Leu	Cys	Gly	Pro	Ala		
190			130					135					140					
	gag																4	79
193	Glu	Pro	Gln	Gln	Pro	Val	Gln	Leu	Thr	Lys	Glu	Ser	Glu	Pro	Ser	Ala		
194		145					150					155						
												gga	gaca	gga a	aact	gcgttt	5:	32
197	Arg	Thr	Lys	Phe	Tyr	•	Glu	Gln	Ser	Trp								
	160					165												
	tageettgtg cecceaaace aageteatee tgeteagggt etatggtagg ca tecceeqaaa tatgteeaca teetaateee aagatetgtg eatatgttae ca																92	
		_		-						_				52				
			•	-		-		-	_	-	_			_		cctggg		12
			-		_				_							agagag		72
	_				-			_	_		-					acatat		32
																tccgga		92
														tca	gact	tctgac		52
	ctccacaact ataaaataat aaacttgtgt tattgtaaac ctctgg 998													98				
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	<212> TYPE: PRT																	
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							<b>a</b> .	<b>~</b> ·	<b>~</b> 3		<b>a</b> ,	m1	D	<b>+</b>	<b>T</b> 1.	31-		
	Phe	GIN	GLU	Leu		TTE	cys	ser	GLU	_	GIN	rnr	Pro	ьeu		ATG		
224	1				5					10					15			

Input Set : A:\36858Aseq.txt

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227 Gly Met Cys Ser Leu Pro Met Ala Arg Tyr Tyr Ile Ile Lys Tyr Ala
231 Asp Gln Lys Ala Leu Tyr Thr Arg Asp Gly Gln Leu Leu Val Gly Asp
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235 Pro Val Ala Asp Asn Cys Cys Ala Glu Lys Ile Cys Thr Leu Pro Asn
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239 Arg Gly Leu Asp Arg Thr Lys Val Pro Ile Phe Leu Gly Ile Gln Gly
                       70
243 Gly Ser Arg Cys Leu Ala Cys Val Glu Thr Glu Glu Gly Pro Ser Leu
                    85
247 Gln Leu Glu Asp Val Asn Ile Glu Glu Leu Tyr Lys Gly Gly Glu Glu
               100
                                    105
251 Ala Thr Arg Phe Thr Phe Phe Gln Ser Ser Gly Ser Ala Phe Arg
252 115
                                120
255 Leu Glu Ala Ala Ala Trp Pro Gly Trp Phe Leu Cys Gly Pro Ala Glu
                           135
259 Pro Gln Gln Pro Val Gln Leu Thr Lys Glu Ser Glu Pro Ser Ala Arg
                        150
                                            155
                                                                160
263 Thr Lys Phe Tyr Phe Glu Gln Ser Trp
                   165
267 <210> SEQ ID NO: 5
268 <211> LENGTH: 155
269 <212> TYPE: PRT
270 <213> ORGANISM: Homo sapiens
272 <400> SEQUENCE: 5
273 Met Val Leu Ser Gly Ala Leu Cys Phe Arg Met Lys Asp Ser Ala Leu
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277 Lys Val Leu Tyr Leu His Asn Asn Gln Leu Leu Ala Gly Gly Leu His
281 Ala Gly Lys Val Ile Lys Gly Glu Glu Ile Ser Val Val Pro Asn Arg
           35
                                40
285 Trp Leu Asp Ala Ser Leu Ser Pro Val Ile Leu Gly Val Gln Gly Gly
                            55
289 Ser Gln Cys Leu Ser Cys Gly Val Gly Gln Glu Pro Thr Leu Thr Leu
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                                            75
293 Glu Pro Val Asn Ile Met Glu Leu Tyr Leu Gly Ala Lys Glu Ser Lys
297 Ser Phe Thr Phe Tyr Arg Arg Asp Met Gly Leu Thr Ser Ser Phe Glu
301 Ser Ala Ala Tyr Pro Gly Trp Phe Leu Cys Thr Val Pro Glu Ala Asp
           115
                                120
305 Gln Pro Val Arg Leu Thr Gln Leu Pro Glu Asn Gly Gly Trp Asn Ala
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309 Pro Ile Thr Asp Phe Tyr Phe Gln Gln Cys Asp
310 145
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313 <210> SEQ ID NO: 6
314 <211> LENGTH: 178
315 <212> TYPE: PRT
316 <213> ORGANISM: Rattus rattus
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Input Set : A:\36858Aseq.txt

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323 Ile Leu Leu Phe Arg Ser Glu Ser Ala Gly His Pro Ala Gly Lys Arg
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328 35
                               40
331 Phe Tyr Leu Arg Asn Asn Gln Leu Ile Ala Gly Tyr Leu Gln Gly Pro
335 Asn Thr Lys Leu Glu Glu Lys Ile Asp Met Val Pro Ile Asp Phe Arg
339 Asn Val Phe Leu Gly Ile His Gly Gly Lys Leu Cys Leu Ser Cys Val
343 Lys Ser Gly Asp Asp Thr Lys Leu Gln Leu Glu Glu Val Asn Ile Thr
                                   105
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347 Asp Leu Asn Lys Asn Lys Glu Glu Asp Lys Arg Phe Thr Phe Ile Arg
                               120
          115
351 Ser Glu Thr Gly Pro Thr Thr Ser Phe Glu Ser Leu Ala Cys Pro Gly
                           135
355 Trp Phe Leu Cys Thr Thr Leu Glu Ala Asp His Pro Val Ser Leu Thr
356 145
                                          155
359 Asn Thr Pro Lys Glu Pro Cys Thr Val Thr Lys Phe Tyr Phe Gln Glu
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363 Asp Gln
367 <210> SEQ ID NO: 7
368 <211> LENGTH: 177
369 <212> TYPE: PRT
370 <213> ORGANISM: Sus scrofa
372 <400> SEQUENCE: 7
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382 Cys Arg Met Gln Ala Phe Arg Ile Trp Asp Val Asn Gln Lys Thr Phe
                               40
386 Tyr Leu Arg Asn Asn Gln Leu Val Ala Gly Tyr Leu Gln Gly Pro Asn
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390 Thr Lys Leu Glu Glu Lys Ile Asp Val Val Pro Val Glu Pro His Phe
394 Val Phe Leu Gly Ile His Gly Gly Lys Leu Cys Leu Ser Cys Val Lys
398 Ser Gly Asp Glu Met Lys Leu Gln Leu Asp Ala Val Asn Ile Thr Asp
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402 Leu Arg Lys Asn Ser Glu Gln Asp Lys Arg Phe Thr Phe Ile Arg Ser
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          115
406 Asp Ser Gly Pro Thr Thr Ser Phe Glu Ser Ala Ala Cys Pro Gly Trp
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410 Phe Leu Cys Thr Ala Leu Glu Ala Asp Gln Pro Val Gly Leu Thr Asn
411 145
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VERIFICATION SUMMARY
PATENT APPLICATION: US/10/003,671A
DATE: 04/08/2002
TIME: 15:14:39

Input Set : A:\36858Aseq.txt

Output Set: N:\CRF3\04082002\J003671A.raw

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date